

Appln. No. 09/840,193  
Amendment dated September 13, 2005  
Reply to Office Action of May 20, 2005

Amendments to the Claims:

Please cancel claim 1, amend claims 2, 6, 8 and 9, and add new claims 33 and 34 as follows. The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Cancelled).

Claim 2 (Currently Amended). The radiation image processing apparatus according to Claim [[1]] 33, wherein the contour recognizing section judges the kind of recognized contour based on a position change of a boundary of the object region.

Claim 3 (Previously Presented). The radiation image processing apparatus according to Claim 2, wherein the contour recognizing section comprises:

a region boundary point detecting section that detects a  
5 boundary of the object region,

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a position change amount calculating section that calculates  
a position change amount of the boundary of the object region  
from plural region boundary points detected by the region  
boundary point detecting section, and

10 a contour specifying section that specifies the kind of  
recognized contour from the position change amount calculated by  
the position change amount calculating section.

Claim 4 (Original). The radiation image processing  
apparatus according to Claim 3, wherein the position change  
amount is a distance between neighboring region boundary points.

Claim 5 (Previously Presented). The radiation image  
processing apparatus according to Claim 3, wherein the position  
change amount is an amount of change in coordinates between  
neighboring region boundary points in one or both of the  
5 horizontal and vertical directions.

Claim 6 (Currently Amended). The radiation image processing  
apparatus according to Claim ~~[[1]]~~ 33, wherein the contour  
recognizing section judges the kind of recognized contour based  
on local region widths of the object region.

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Claim 7 (Previously Presented). The radiation image processing apparatus according to Claim 6, wherein the contour recognizing section comprises:

- 5 a region boundary point detecting section which detects a boundary of the object region,
- a region width calculating section which calculates local region widths of the object region from plural region boundary points detected by the region boundary point detecting section, and
- 10 a contour specifying section which specifies the kind of recognized contour from the region widths calculated by the region width calculating section.

Claim 8 (Currently Amended). The radiation image processing apparatus according to claim [[1]] 33, wherein the body part of the object is recognized by using the feature amount obtained in the contour recognizing section.

Claim 9 (Currently Amended). The radiation image processing apparatus according to Claim [[1]] 33, further comprising a radiographing orientation judging section which judges a

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radiographing orientation for the object from the contour based  
5 on the feature amount.

Claims 10-32 (Cancelled).

Claim 33 (New). A radiation image processing apparatus  
which identifies a contour of a radiographed body part and  
determines which one of a plurality of different contour types  
corresponding to a plurality of different kinds of body parts the  
5 radiographed body part belongs, the apparatus comprising:

an object region extracting section that receives a set of  
two-dimensionally-arranged radiation image data including  
radiation image data of the radiographed body part and extracts  
an object region formed by the radiation image data of the  
10 radiographed body part from the set of two-dimensionally-arranged  
radiation image data; and

a contour recognizing section having classification criteria  
data for each of the plurality of different contour types, which  
recognizes a contour of the extracted object region, and  
15 determines to which one of the plurality of different contour  
types the recognized contour belongs based on the classification  
criteria data.

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Claim 34 (New). The radiation image processing apparatus of claim 33, wherein the contour recognizing section provides a feature amount to the recognized contour in accordance with the determined one of the plurality of different contour types.